

DH-IPC-HDBW5541E-ZHE

5MP IR Vari-focal Vandal-proof Dome WizMind Network Camera



Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS,NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

Driven by deep learning algorithms, Dahua WizMind S Series network camera offers a variety of intelligent functions that greatly improve the accuracy of audio and video analysis. It supports video metadata, smart sound detection, face detection, perimeter protection, people counting and more. The camera also adopts advanced image processing AI-Powered Image technology and has the Deeplight night vision effect. The camera is dustproof, waterproof and vandal-proof, and is certified as IP67 and IK10 (the type of protection varies depending on the model).

Functions

AI-Powered Image

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

Face Detection

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

Smart Sound Detection

With deep learning algorithms, Dahua Smart Sound Detection technology can detect and identify the sound of screams, glass breaking, and more.

- * The parameters and datasheets below can only be applied to 5541-Z-S3 series.
- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5MP (2960×1668) @25/30 fps.
- Built-in IR LED, and the max. illumination distance is 40 m.
- ROI, SVC, SMART H.264+/H.265+, AI H.264/H.265, encoding after filter, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- With deep learning algorithm, it supports: video metadata, smart sound detection, IVS, face detection, smart object detection, and people counting, etc.
- Alarm: 2 in, 1 out; audio: 1 in, 1 out; supports max. 512 GB Micro SD card, built-in MIC.
- 24V AC/12 VDC/PoE power supply; ePoE.
- IP67 and IK10 protection, heater.
- SMD 3.0.



People Counting

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs reports to meet your requirements.

Video Metadata

With deep learning algorithm, Dahua Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

Protection (IP67, IK10, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification

Camera					
Image Sensor		1/2.7" CMOS			
Max. Resolution		2960 (H) × 1668 (V)			
ROM		4 GB			
RAM		1 GB			
Scanning Syst	tem	Progressive			
Electronic Sh	utter Speed	Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.0009 lux@F1.5 (Color, 30 IRE) 0.0005 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>56 dB			
Illumination I	Distance	40 m (131.23 ft) (IR)			
Illuminator O	n/Off Control	Auto; Zoomprio; Manual			
Illuminator N	lumber	3 (IR LED)			
Angle Adjustment		Pan: 0°–355° Tilt: 0°–65° Rotation: 0°–355°			
Lens					
Lens Type		Motorized vari-focal			
Lens Mount		φ14			
Focal Length		2.7 mm-13.5 mm			
Max. Aperture		F1.5			
Field of View		H: 114°–32°; V: 58°–17°; D: 138°–36°			
Iris Control		Auto			
Close Focus Distance		0.8 m (2.62 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	64.0 m (209.97 ft)	25.6 m (83.99 ft)	12.8 m (41.99 ft)	6.4 m (20.99 ft)
Distance	т	210.0 m (688.98 ft)	84.0 m (275.89 ft)	42.0 m (137.80 ft)	21.0 m (68.90 ft)
Intelligend	ce				
IVS (Perimeter Protection)		Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection			
Smart Object Detection		Smart abandoned object; smart missing object			
SMD 3.0		Less false alarm, longer detection distance			
AI SSA		Yes			
Face Detection		Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face, one-inch photo or custom; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting.			

People Counting	Tripwire people counting, generating and exporting report (day/week/month/year); people counting in area and queue management; generating and exporting report (day/week/month); 4 rules can be set for tripwire, people counting in area and queue management.		
Heat Map	Yes		
Video Metadata	Motor vehicle, non-motor vehicle, face, human body detection; track; snapshot; snapshot optimization; optimal face snapshot upload. Motor vehicle attributes: vehicle type, vehicle color, vehicle logo and other attributes : seatbelt, smoking, calling. Non-motor vehicle attributes: type, color, number of people, top type and color, hat. Human body attributes: gender, top/bottom type and color, bag, hat and umbrella. Face attributes: gender, age, expressions, glasses, face mask and beard.		
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos		
Smart Sound Detection	Yes		
Video			
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)		
Smart Codec	Smart H.265+; Smart H.264+		
AI Coding	AI H.265; AI H.264		
Video Frame Rate	Main stream: 2960 × 1668@(1–25/30 fps) Sub stream: D1@(1–25/30 fps) Third stream: 1080p@(1–25/30 fps) Fourth stream: 720p@(1–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.		
Stream Capability	4 streams		
Resolution	5M (2960 × 1668); 5M (2880 × 1620); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 32 kbps-16384 kbps; H.265: 12 kbps-11776 kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
Scene Self-adaptation (SSA)	Yes		
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
Gain Control	Auto		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest (RoI)	Yes (4 areas)		
Image Stabilization	Electronic Image Stabilization (EIS)		

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PerfogYesImage Rotation0'/90'/180'/270' (Support 90'/270' with 4M (2688 x1520) resolution and lower)MirrorYesPrivacy Masking8 areasAudio					
Image Notationx1520) resolution and lower)MirrorYesPrivacy Masking8 areasAudioKesAudio Compression6.711 a; G.711 Mu; PCM; G.726; G.723AlarmSo Dard; SD card full; SD card error; network disconnection; Pooffict; Ilgeal access; motion detection; video tampening; tripwire; intrusion; fast moving; abandoned object; missing object; Dioting getection; scene changing audio detection; external alarm; face detection; queue pople muber alarm; face detection; queue pople number alarm; face detection; puese number alarm; face detection; fuese number alarm; face detection; puese number alarm; face detection; fuese number alarm; face detection; fuese number alarm; face detection; fuese number alarm; face detection;	Defog	Yes			
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CertificationsCE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14PortAudio Input1 channel (RCA port)Audio Output1 channel (RCA port)Alarm Input2 channels in: wet contact, 5mA 3V–5V DC	Certification				
Audio Input 1 channel (RCA port) Audio Output 1 channel (RCA port) Alarm Input 2 channels in: wet contact, 5mA 3V–5V DC	Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B;			
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Alarm Input 2 channels in: wet contact, 5mA 3V–5V DC	Audio Input	1 channel (RCA port)			
	Audio Output	1 channel (RCA port)			
Alarm Output 1 channel out: wet contact, 300mA 12V DC	Alarm Input	2 channels in: wet contact, 5mA 3V–5V DC			
	Alarm Output	1 channel out: wet contact, 300mA 12V DC			

Power				
Power Supply	12 VDC/24 VAC/PoE (802.3af)/ePoE			
Power Consumption	Basic: 3.9 W (12 VDC); 4.6 W (24 VAC); 5.6 W (PoE) Max. (H.265+ WDR+ Intelligence on+IR on): 10 W (12 VDC); 11.7 W (24 VAC); 12.1 W (PoE)			
Environment				
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)			
Operating Humidity	≤95%			
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)			
Storage Humidity	10%–95% (RH), non-condensing			
Protection	IP67; IK10			
Structure				
Casing Material	Metal			
Product Dimensions	Φ159.1 mm × 118.1 mm (6.26" × Φ4.65")			
Net Weight	0.91 kg (2.01 lb)			
Gross Weight	1.22 kg (2.69 lb)			

Ordering Information				
Туре	Model	Description		
5MP Camera	DH-IPC-HDBW5541E-ZHE	5MP IR Vari-focal Vandal-proof Dome WizMind Network Camera		
	IPC-HDBW5541E-ZHE	5MP IR Vari-focal Vandal-proof Dome WizMind Network Camera		
Accessories (Optional)	PFB211W	Wall Mount Bracket		
	PFA138	Junction Box		
	PFB5201C	In-ceiling Mount Bracket		
	PFB300C	Ceiling Mount Bracket		
	PFA156	Pole Mount Bracket		
	PFA101	Mount Adapter		
	PFM321D	12 VDC 1 A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

Wiz Mind S | DH-IPC-HDBW5541E-ZHE

Accessories

Optional:



PFB211W Wall Mount Bracket



PFB300C Ceiling Mount Bracket





PFA156 Pole Mount Bracket



PFB5201C

In-ceiling Mount Bracket

PFA101 Mount Adapter



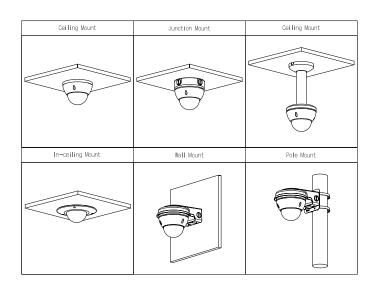
PFM321D 12 VDC 1 A Power Adapter



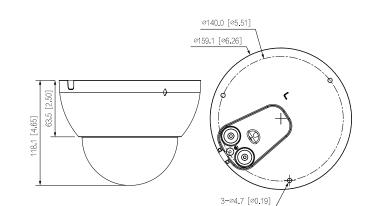
PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])



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